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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/601,015 07/24/2000		Eugen Pavel	21571	4323	
535	7590 06/30/2004	•	EXAMINER		
THE FIRM	OF KARL F ROSS	EDUN, MOHAMMAD N			
5676 RIVER PO BOX 900	DALE AVENUE	ART UNIT	PAPER NUMBER		
RIVERDALE (BRONX), NY 10471-0900			2655		
			DATE MAILED: 06/30/2004	$\mathcal{C}_{\mathcal{C}}$	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	ion No.	Applicant(s)				
			015	PAVEL, EUGEN				
Office Action Summary		Examine	or .	Art Unit				
		MUHAMI	MAD N EDUN	2655				
	The MAILING DATE of this commu	nication appears on th	e cover sheet with the	correspondence add	lress			
Period fo								
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD I MAILING DATE OF THIS COMMUN nsions of time may be available under the provision SIX (6) MONTHS from the mailing date of this come period for reply specified above is less than thirty (0) period for reply is specified above, the maximum sure to reply within the set or extended period for reply reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no e munication. 30) days, a reply within the sta statutory period will apply and o y will, by statute, cause the ap	vent, however, may a reply be atutory minimum of thirty (30) d will expire SIX (6) MONTHS fro plication to become ABANDOI	timely filed  lays will be considered timely, om the mailing date of this cor NED (35 U.S.C. § 133).				
Status								
1)	Responsive to communication(s) fil	ed on .						
2a)□	This action is <b>FINAL</b> . 2b) This action is non-final.							
3)	,—							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4) 🖂	Claim(s) <u>1-94</u> is/are pending in the application.							
,—	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠	☑ Claim(s) <u>88-94</u> is/are allowed.							
6)⊠	_							
rejected.		•						
7)🖂	Claim(s) <u>3, 6, 10-12, 20, 21, 23-32, 36, 40, 43-52, 56, 58-66, 70, 75 and 78-87</u> is/are objected to.							
8)	Claim(s) are subject to restri	iction and/or election	requirement.					
Applicat	ion Papers							
9) The specification is objected to by the Examiner.								
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected	to by the Examiner. N	lote the attached Offic	ce Action or form PTC	D-152.			
Priority (	under 35 U.S.C. § 119							
12)	Acknowledgment is made of a claim	n for foreign priority ur	nder 35 U.S.C. § 119(	a)-(d) or (f).				
	☐ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority	documents have be	en received.					
	2. Certified copies of the priority	documents have be	en received in Applica	ation No				
	3. Copies of the certified copies	of the priority docum	ients have been recei	ved in this National S	Stage			
	application from the Internati	•	, ,,					
* (	See the attached detailed Office acti	on for a list of the cer	tified copies not recei	ved.				
Attechma-	t(c)							
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)			Paper No(s)/Mail	Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)  Other:								

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, 5, 7, 8, 9, 13-15, 17-19, 22, 33-35, 37-39, 41, 42, 53-55, 57, 67-69, 71-74, 76 and 77 are rejected under 35 U.S.C. 102(b) as being anticipated by Rentzepis (5,268,862).

Rentzepis discloses the invention as claimed. Figs. 1a-12 show the data storage and retrieval system for storing information on a three-dimensional fluorescent optical memory having: the first and second coherent light beam generators (see column 11, lines 23-25 and column 12, lines 15-24) for generating coherent light beams; and the optical positioning system (see Figs. 2 and 12) for directing the first and second light beams to a selected volume of the optical memory to produce a change in fluorescence characteristics in the selected volume (see column 12), as set forth in the claims. Further the reference teach: the coherent light generators are lasers having different wavelengths and include pulse lasers (see column 11, lines 20-25, column 12, lines 15-

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25 and column 14, lines 22-30), as set forth in claims 2, 4, 5, 7, 8, 13-15, 17-19, 34, 35, 37-39, 41, 54, 55, 57, 68, 69, 71-74 and 76; and the focusing system (see Fig. 2 and 12), as set forth in claims 9, 22, 42 and 77. See also the description of the apparatus and figures for further details relating to limitations as set forth in the claims.

### Allowable Subject Matter

Claims 88-94 are allowed.

Claims 3, 6, 10-12, 20, 21, 23-32, 36, 40, 43-52, 56, 58-66, 70, 75 and 78-87 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record alone or in combination does not teach or suggest the system and method of claims 1, 33, 53 and 67 having the further limitations as set forth in claims 3, 6, 10-12, 20, 21, 23-32, 36, 40, 43-52, 56, 58-66, 70, 75 and 78-87. Further

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the prior art does not teach the optical memory having the specific structure as set forth in claims 88-94, and as disclosed in the specification.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Rentzepis (6,608,774) and Birge et al. (5,253,198), both disclose an optical apparatus having three-dimensional medium for recording and reproducing information.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MUHAMMAD N EDUN whose telephone number is 703-308-1550. The examiner can normally be reached on FLEXITIME.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DORIS TO can be reached on 703-305-4827. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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MUHAMMAD N EDUN Primary Examiner Art Unit 2655